Aggregation in Java

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Introduction

Aggregation in Java represents a HAS-A relationship in object-oriented programming. One class contains a reference to another class and uses its properties and methods.

What is Aggregation?

Aggregation establishes a relationship between two classes while keeping them independent of each other.

Features of Aggregation

- Supports code reusability
- Represents a HAS-A relationship
- Improves flexibility
- Simplifies code management

Example

```
class Employee {
   Address address;
}
```

Employee HAS-A Address.

Advantages

1. Easy maintenance
2. Reduced code duplication
3. Better program structure
4. Improved scalability

Real-Life Applications

Banks, universities, schools, and e-commerce systems commonly use aggregation.

Conclusion

Aggregation improves code reusability, readability, and maintainability.